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## Covernment Irrigation

The following extracts from a folder re-cently issued by the Malaga Land and Im-provement Co., will be read with interest. A few slight changes have been made in the composition and arrangement.

#### A History of the Proposition

The progressive American citizen is ever looking tion; for years he has been setting his face to the westward in his search for land and liberty.

The first great advance was made across the middle west; later the tide veered to the northwest and a vast domain was occupied; more recently the advance has been directed toward the southwest and a great region heretofore given over to the long horns has been invaded; this wide scope of country that had for many years been considered of no value except for grazing has been seized by the farmers, the ranchmen have been steadily forced back and a wonderful transformation has resulted. Desert plains and treeless valleys have been changed to fruitful farms.

In no part of the southwest has this transformation been more remarkable or the efforts of the farmers crowned with more abundant success than in the Pecos Valley of New Mexico.

It is to this last mentioned district that especial at tention is invited. A correct understanding of conditions as they now exist under the Project near Carlsbad requires a short review of the history of irriga tion in this locality. Some fifteen years ago certain people conceived the idea that it was possible to so store and distribute the waters of the Pecos river as for an opportunity to better his condition, and in pur-suit of that object he is constantly changing his loca-along the river and below Carlsbad. Surveys were made and it was found that with a proper system of reservoirs and canals about 40,000 agrees could be brought under irrigation.

At that time a greater portion of the land to be affected by the project was public domain and subject to entry under the desert land law as it then existed. This permitted the acquiring of title to comparatively large tracts as each adult member of the family could enter an entire section.

Investigation having shown that the irrigation pro ject was feasible, a company was organized, the res ervoirs and canals were constructed, and the work of reclamation was commenced. In a short time the lands that could be irrigated were entered under the desert land law and title acquired by means of the water supplied by the Irrigation Company.

In the course of a few years a very large per cent



A Pecos Valley Cotton Patch

old towns before the thought of farming in the Pecos these companies became a colonization scheme. however, it was discovered that the soil of the valley was naturally fertile and that a proper application of water would develop its latent productiveness. Then it was that the progressive American citizen UNDERTAKERS began his invasion. His conquest is now nearly of the improvements.

Complete; a few years more andthis once barren. The construction of valley will be one continuous garden and orchard; the home of thousands of prosperous, contented. transformation that is now in progress is found in one word: Irrigation.

> Prior to the coming of the farmers the Pecos Valley had attracted some settlers; some degree of development had been attained. This had been done. dences of development were isolated. These extensivesholdings are now being broken up and the lands are passing into the hands of the homebuilders.

> This transition makes this old country new; it gives it all the opportunities of a new country coupled with many of the advantages of older settled localities. It has good markets and good schools; every communi ty has its church.

### Irrigation

The portion of the Pecos Valley that is now being brought under systematic irrigation lies across the nties of Chaves and Eddy: a distance of about se hundred miles. This district is naturally divided nto three parts by the sources of its water sup First, the Hondo Project near Roswell; second, the proven artesian belt extending from Roswell to Lake-wood, and third, the Carlsbad Project located near Carlabad. In the first, water is obtained by storing the flood waters of the Hondo river; in the second, water is obtained from artesian wells, artesian water being found at depths ranging from 300 to 900 feet the wells being put down by the individual land owners: in the third, water is obtained by storing the waters of the Pecos river and using the normal flow of Black river. This is also a Govern

Until a few years ago this valley was believed to of the irrigated lands were owned by corporations be utterly unfit for agricultural purposes; it was con- and the lands were tilled by tenants, a large proporceded to be a cowman's paradise, but farming nev- tion of whom were foreigners who had been colonizer. Roswell and Eddy (now Carlsbad) were both ed on these lands. In fact the system as managed by Valley had progressed very far. After a time, dividual holdings were few and as a result, the improvements placed upon the land were equally few, the large land owners erecting only such buildings as

The construction of the dams, flumes and ditches required a large expenditure of money; the proper construction of these works required a greater amount and happy people. The secret of this remarkable of money than was at the command of the company. and as a result much of the work was of a temporary character. As the years went by these temporary works began to give way, the water service became unsatisfactory and uncertain and the people began to be discouraged; the farmers hesitated to plant behowever, under the old idea that this was a stock cause of the uncertainty of the water; one trouble is for room, lands were held in large tracts and evi- es of failure began to show on every side. The peo- assigned to their lands have signed contri unprecedented rise in the Pecos river carried away market and is opening the country to settlement; it

the dams on that river and completely wrecked t irrigation system. This loss was greater than the company could stand and all effort to supply water was abandoned.

This apparent failure, however, was in no way due to the want of fertility in the soil or insufficiency of natural water supply: it was the result of a poorly constructed irrigation system—the undertaking was too big for the company.

Soon after the dams were destroyed the attention of the government was called to the project and its possibilities. Experts were sent into the field and as a result of their examination and reports it was decided that his was a proper place for the application of the provisions of the Reclamation Act. Accordingly the Government undertook the work of famishing to this valley a substantial and permanent irrigation system. The result has been the construction of the largest irrigation system in the southwest. This plant has been repaired and perfected by the Government and the sum of \$600,000 has been expended on the undertaking; water was ready for delivery on April 1st, 1907. Last year there was ample water for 20,000 acres only; other lands will be added from time to time as the water supply and general conditions will warrant.

The maintenance of the system and the distribution of the water will be in charge of Government engineers, thus assuring permanence, stability and absolute equality in the administration of the affairs of the system. Water has now been allotted to 20,000 acres and this was done under government supervision.

#### Title and Soil

Before water was allotted to any specific tract the matter was examined by an engineer, a chemist and a lawyer, each acting for and on behalf of the Government. A favorable report from each of the three was required before water was assigned to that particular tract of land, so that when you buy a tract of land to which water has been assigned you may be sure of three things: First, that it lays so it can be irrigated; second, that the soil is such as to make it worth irrigating, and third, that the title is perfect.

The government does not deal directly with each land owner, but requires the water users to form themselves into an association known as the Water Users Association; this association is incorporated and has a capital stock of 20,000 shares. The contracts with the Government are made by the officers of this association and the officers are elected by the members of the association; each water user subscribes for as many shares of stock as he has acres of watered land and the value of the stock is \$30 per share; this is payable in ten annual payments of \$3 each, without interest; the money realized from the sale of this stock goes to the Government to replace the money advanced to put in the system; when it shall have all been paid in, the water users will be the owners of the water and water rights, but these water rights will run with and belong to the land to which they were absolutely required by the tenants, and the are allotted. Under the provisions of the reclamamildness of the climate contributed to the meagreness tion law, water from the Government systems can only be furnished to resident land owners, and then not to exceed one hundred and sixty acres to any one owner; this provision effectually does away with the tenant farmers and the large holdings. Non-residents cannot obtain a water right. It is provided. however, that no land owner shall be debarred from the use of water until he shall have been in default for more than two years; this gives ample opportunity for the prospective resident to arrange his affairs and take up his abode in the irrigation district.

Both the old Irrigation Company and the Beet country only; and as the chief desire of the stockman followed another in quick succession and the evidence Sugar Company, in consideration of having water ple soon began leaving the valley; the tenants simply to reduce their holdings to the legal limit within two moved away, moved to other places, and the depop- years and to sell such land to parties who are quali-ulation of the valley was commenced; such condi- fied to take and use the water of the irrigating systions continued until about three years ago, when an tem. This has placed these large holdings on the



Rapids in Black River year Malaga